

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 13 BUSINESS AND VINE STREET IN WICOMICO COUNTY. US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. ALL SIGNAL HEADS WILL BE REPLACED WITH BLACKFACED, VIDEO DETECTION FOR SIDE STREETS, REPLACE OF PEDESTRIAN EQUIPMENT AND ADD SIDE STREET SPLIT PHASING.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH A RAILROAD PRE-EMPTION, TRACK CLEARANCE, AND AN ALTERNATE PEDESTRIAN PHASE FOR THE SOUTHLEG OF US 13 BUSINESS. SIDE STREETS WILL BECOME SPLIT PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER HOUSED IN A BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE INSTALLATION OF VIDEO DETECTION INTERFACE EQUIPMENT WILL BE NEEDED FOR THIS PROJECT.

PHASING CHART

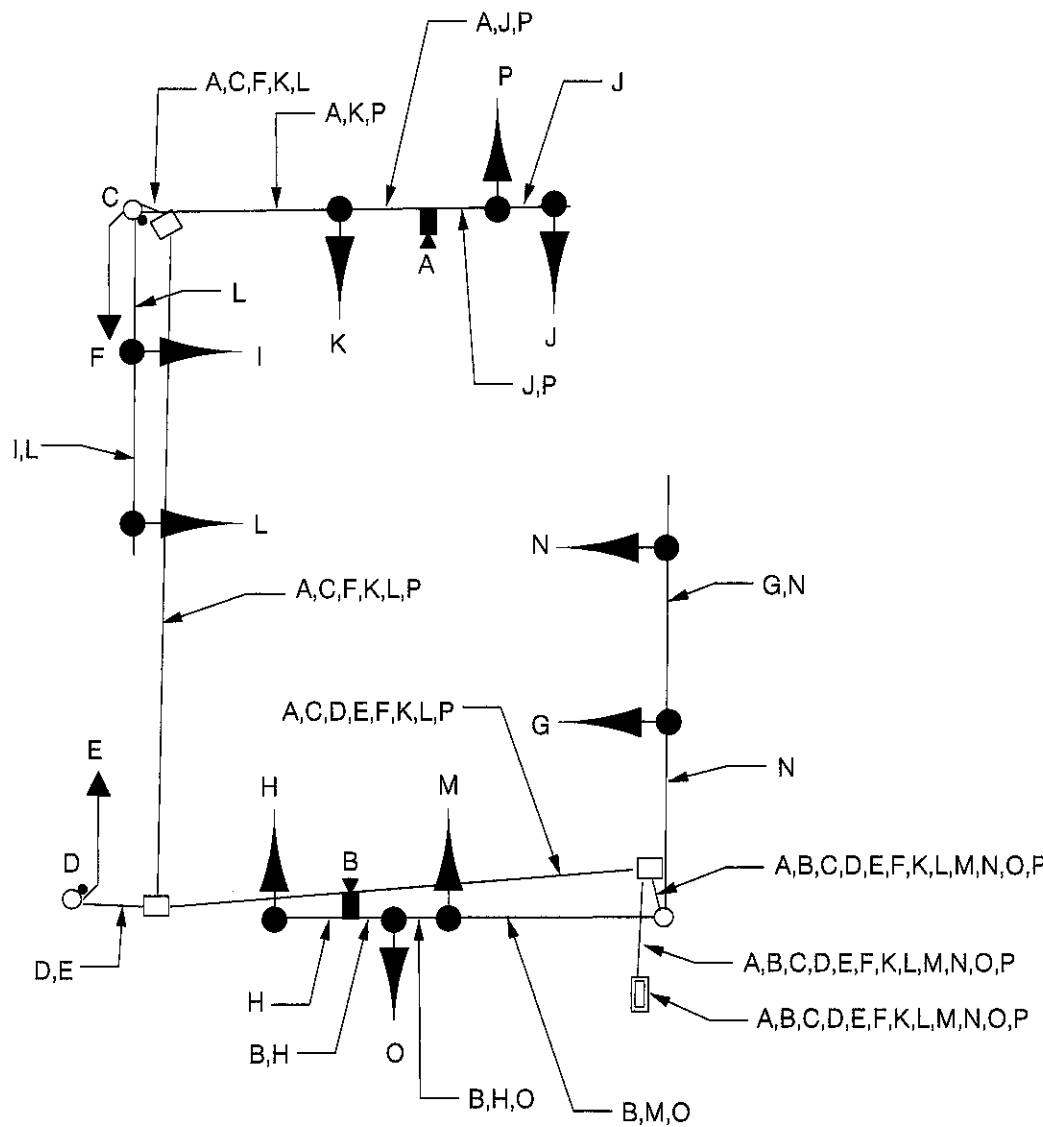
	1	2	3	4	5	6	7	8	9	10	11	12
	R	R	R	R	R	R	R	R	R	R	DW	DW
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	WK	WK
	G	G	G	G	G	G	G	G	G	G	DW	DW
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	R	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	R	R	R	R	WK	WK
PED. CLEAR	R	R	R	R	R	R	R	R	R	R	FL/DW	FL/DW
4 ALT. CHANGE	R	R	R	R	Y	Y	Y	R	R	R	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
	8019	
1001	1 EA	MAINTENANCE OF TRAFFIC
8001	2 EA	FURNISH AND INSTALL 250 FT. VIDEO CABLE TO CONTROLLER
8010	4 EA	FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD SECTION
8011	28 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8019	6 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8032	2 EA	FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND SIGN "PUSH BUTTON TO CROSS SALISBURY BLVD"
8048	LS	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT
8049	2 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
8050	1 EA	FURNISH AND INSTALL VIDEO DETECTION INTERFACE EQUIPMENT
8082	250 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 A.W.G.)
8083	250 LF	FURNISH AND INSTALL ELECTRICAL CABLE 3-CONDUCTOR (NO. 14 A.W.G.)
8084	90 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8085	950 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)

WIRING DIAGRAM



WIRING KEY

- A-B VIDEO DETECTION 250 FT. PREMANUFACTURED CABLE
- C-D 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E-F 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- G-J 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- K-P 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY MSHA AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 1 ARE AS FOLLOWS:

- MR. GENE COFIELL  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 677-4040

MR. JAMES WRIGHT  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 543-6715
- MR. BRUCE POOLE  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
(410) 677-4082
- MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676
- MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

MS. DARLENE EIDE  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668
- MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
(410) 787-7652

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

EQUIPMENT LIST "C"

**T**RAFFIC **C**ONCEPTS, INC.  
325 Gambrills Road  
Suite E  
Gambrills, MD 21054  
(410) 923-7101

FAX (410) 923-6473 EMAIL TRACONCEPT@AOL.COM

SHA#: W1513A52 TOD#: YX10061-47

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
GENERAL INFORMATION  
US 13 BUSINESS AND VINE STREET

DRAWN BY: M.HOWELL	F.A.P. NO. XX1065185	TS NO. 1938-B	SHEET NO.
CHECKED BY: NONE	S.H.A. NO. WICOMICO	T.I.M.S. NO. F648	2 OF 2
SCALE: NONE	LOG MILE: 22801305.11		
DATE: 4/2004			